

FIG. 1A

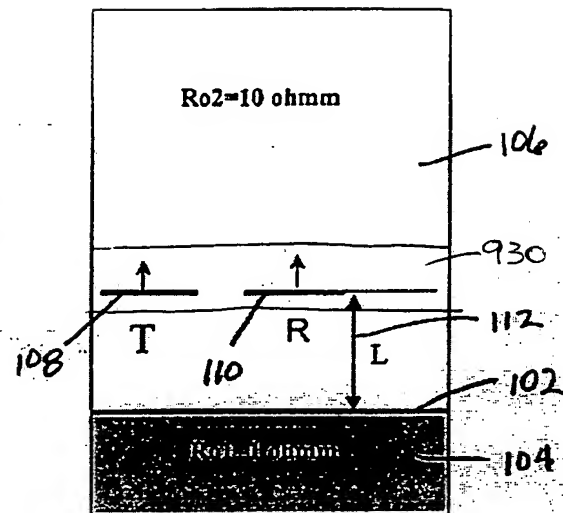


FIG. 1B

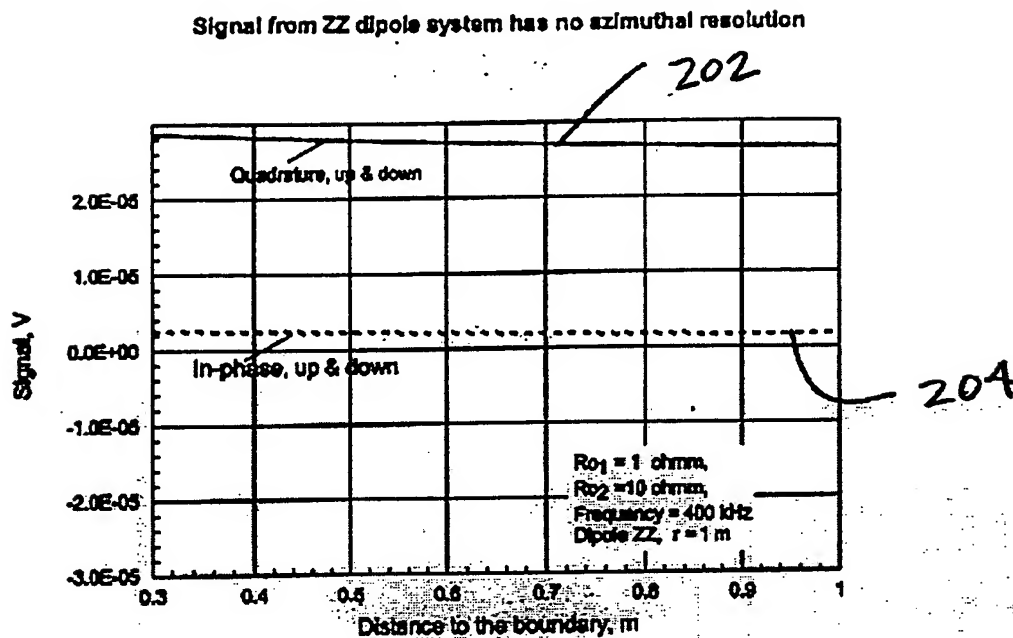
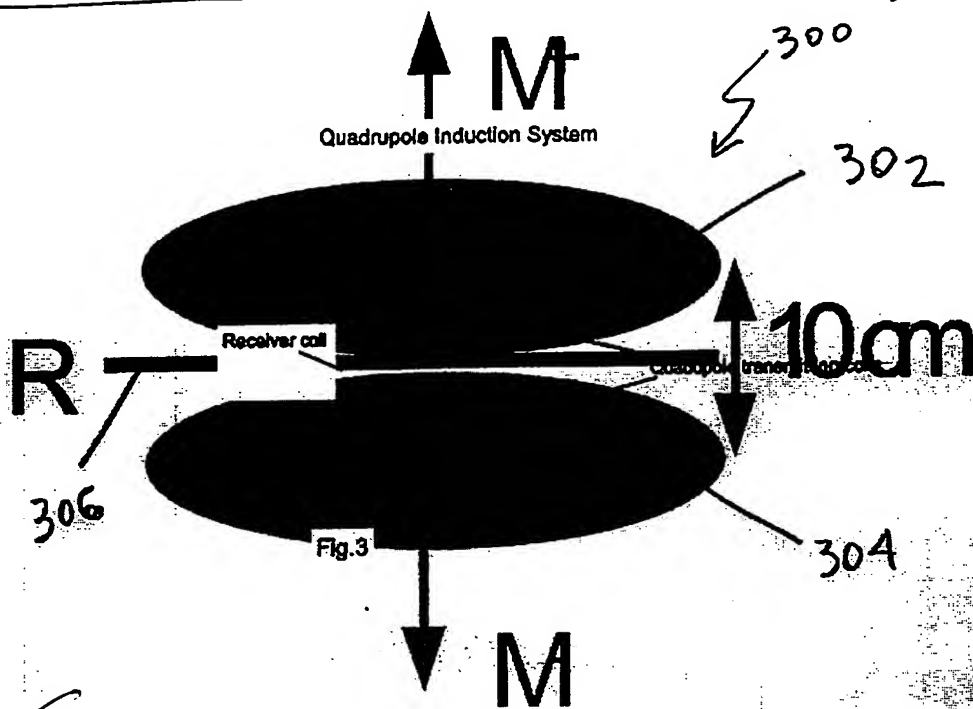


Fig.2



Quadrupole transmitter resolves formation
in azimuthal direction

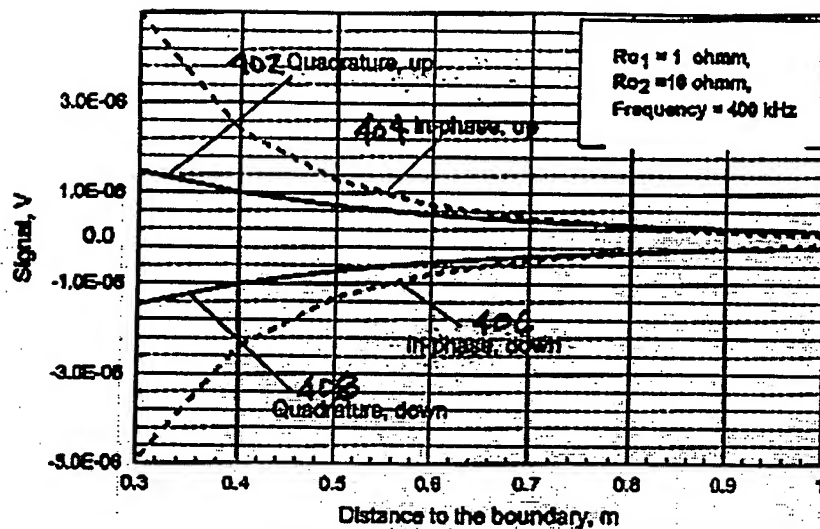


Fig.4

Quadrupole transmitter: Signal vs. Spacing

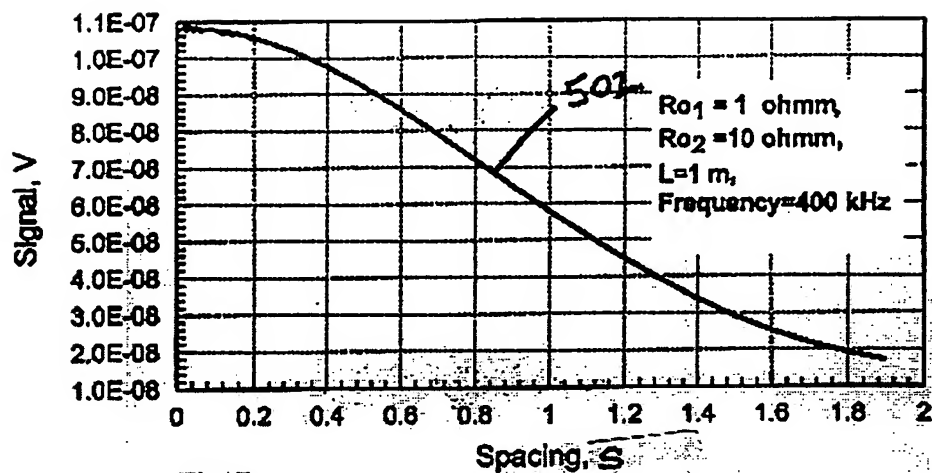


Fig.5

Optimal coil size

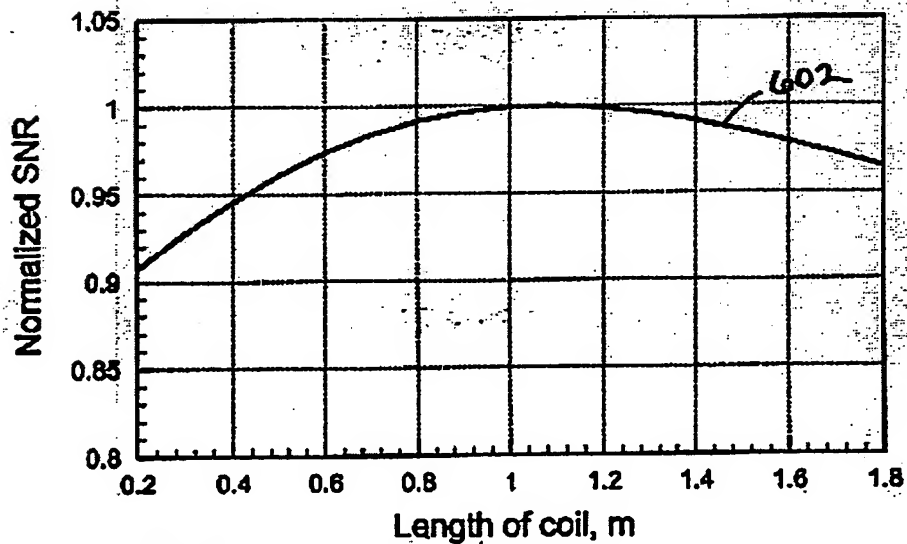


Fig.6

Frequency dependance for In-phase component

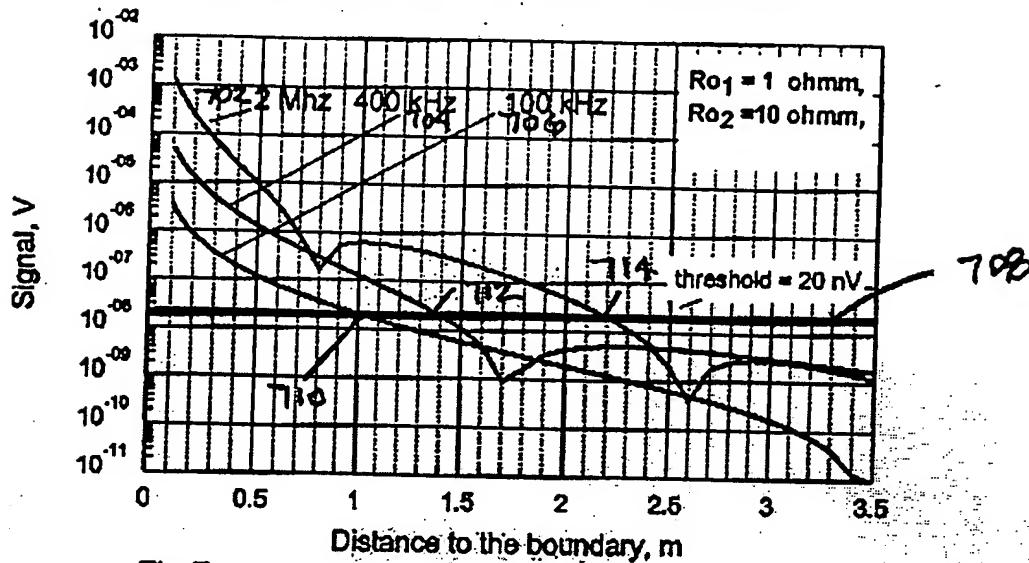


Fig.7

Frequency dependance for Quadrature component

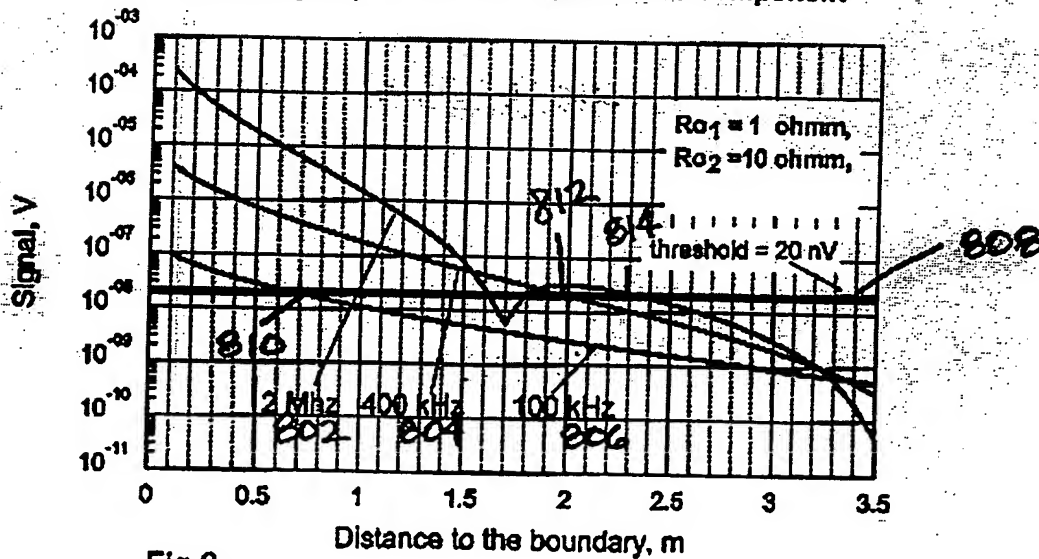


Fig.8

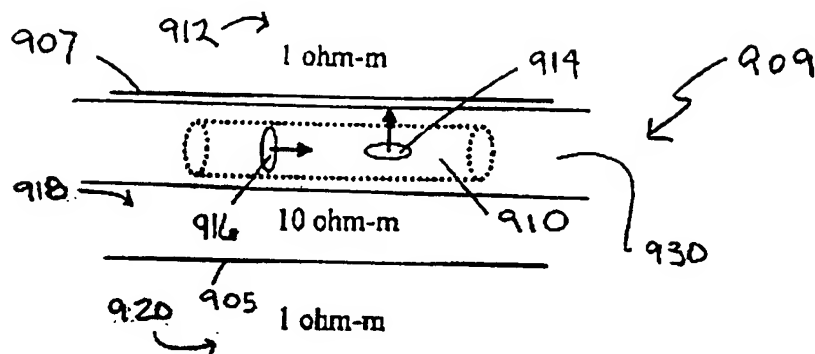


Figure 9. Diagram showing a Z-transmitter (horizontal) and an X-receiver (vertical) in a three-layer formation. The 10-ohmm layer is 10 ft thick.

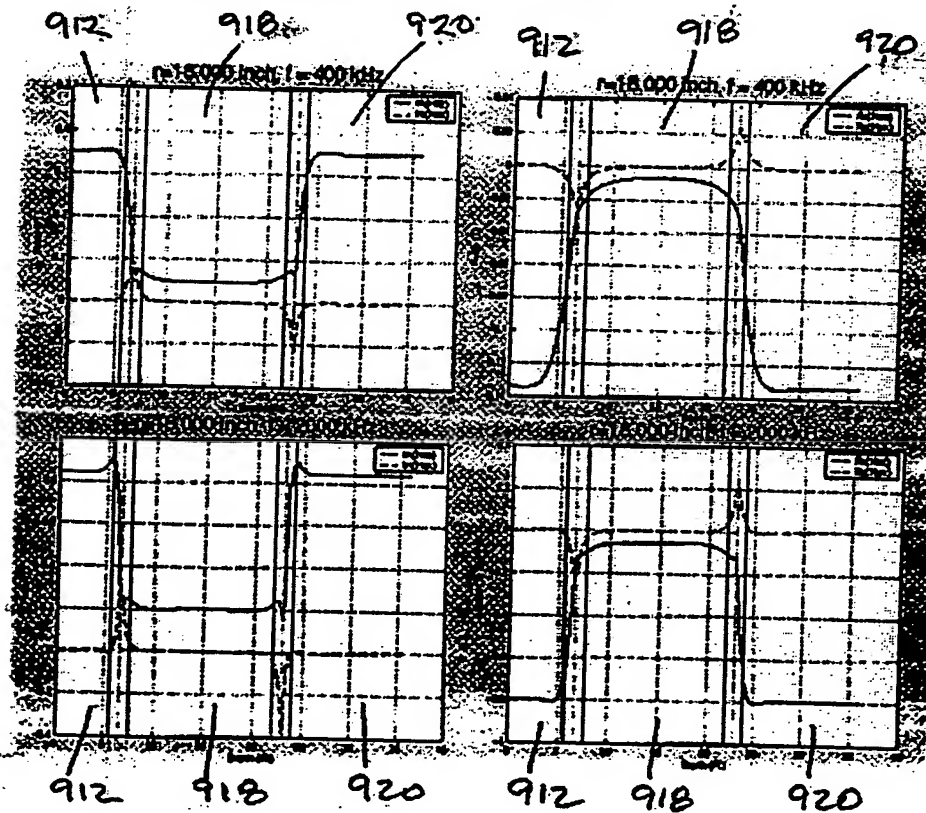
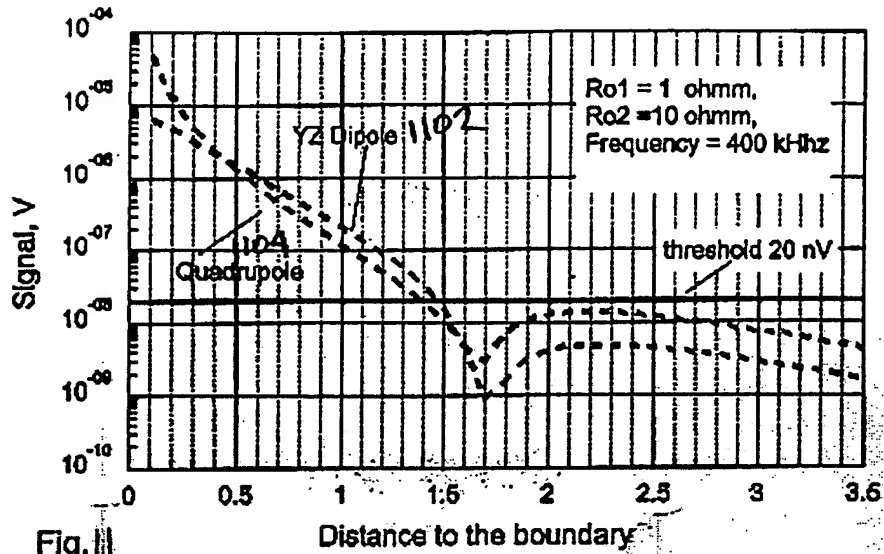
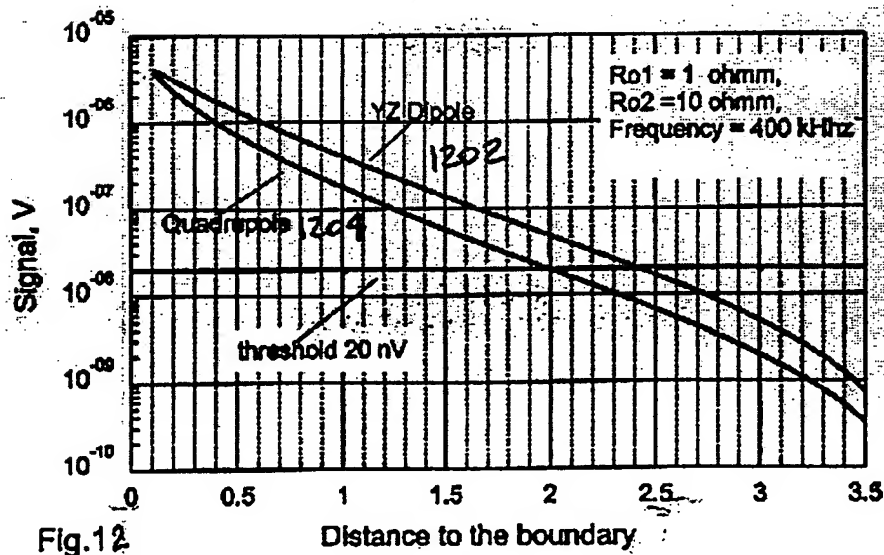


Figure 10. The magnetic field (real and imaginary parts) for the ZX transmitter and receiver configuration in the three-layer formation shown in Figure 1. The 'tool' axis is parallel to the bed boundaries.

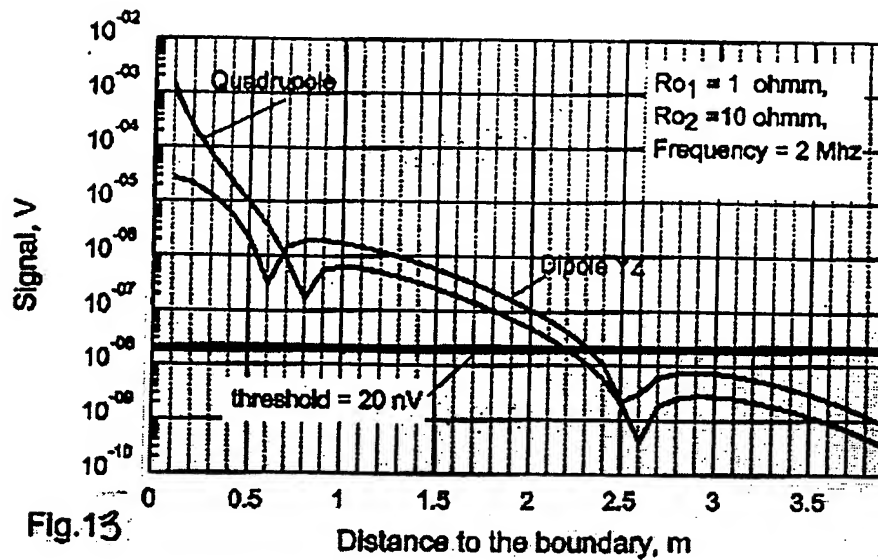
Quadrupole vs. Cross-Component (In-phase)



Quadrupole vs. Cross-Component (Quadrature)



Quadrupole vs. Cross-Component (In-phase)



Quadrupole vs. Cross-Component (Quadrature)

